Fig.1
(PRIOR ART)

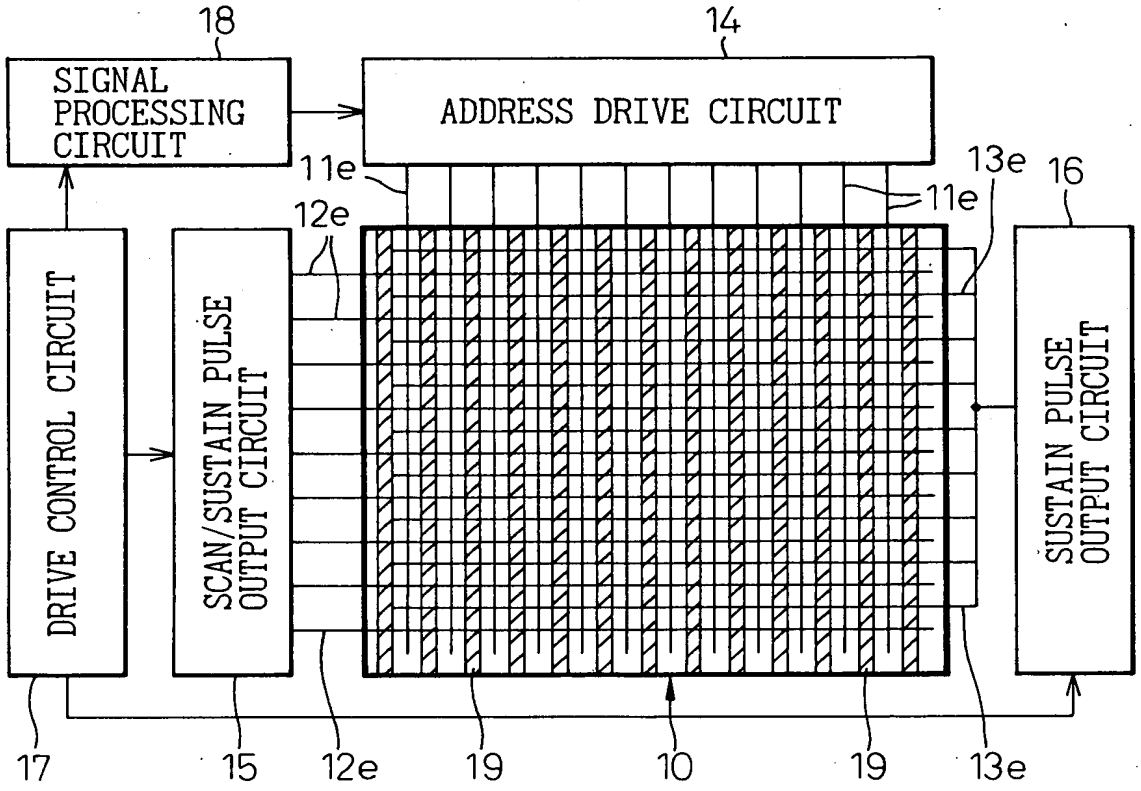

Fig.2
(PRIOR ART)

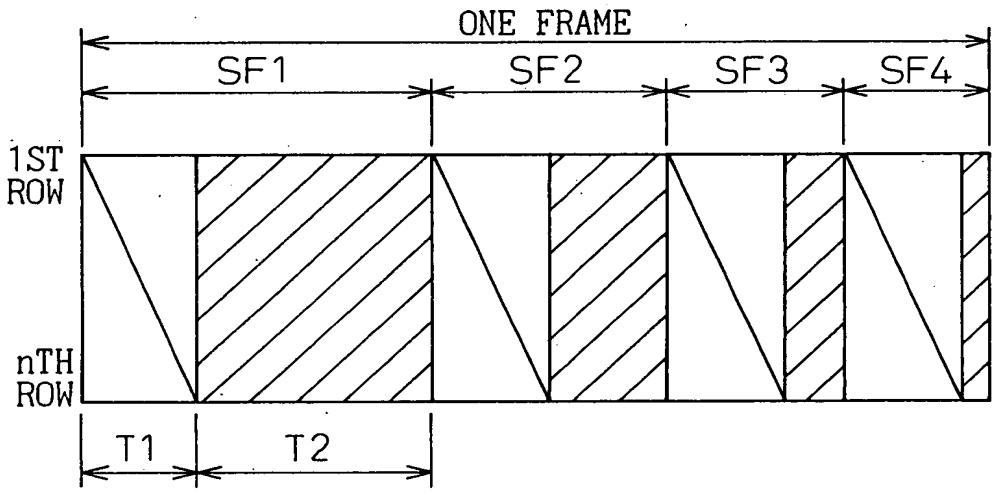

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Fig.3A
(PRIOR ART)

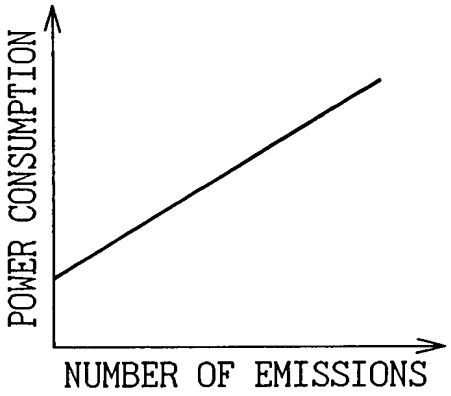

Fig.3B
(PRIOR ART)

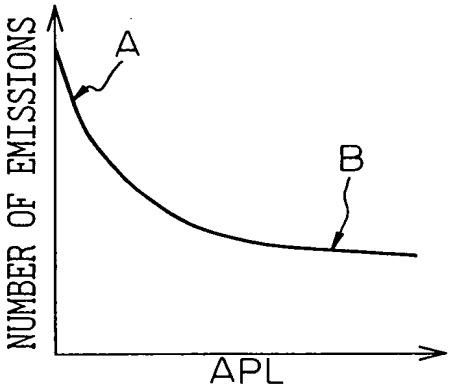

Fig.3C
(PRIOR ART)

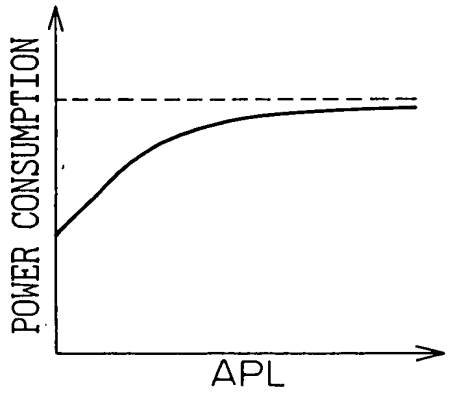

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Fig. 4
(PRIOR ART)

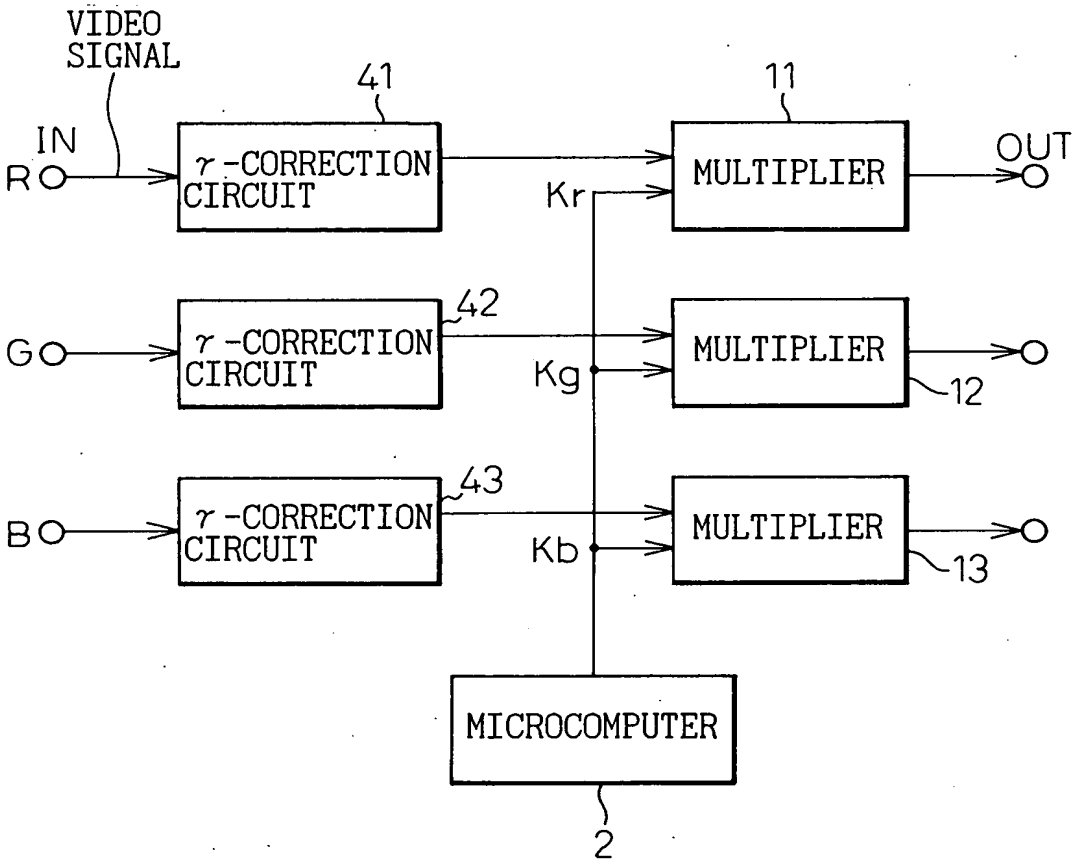

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Fig.5A

(PRIOR ART)

RELATIONSHIP BETWEEN THE NUMBER OF EMISSIONS AND LUMINANCE

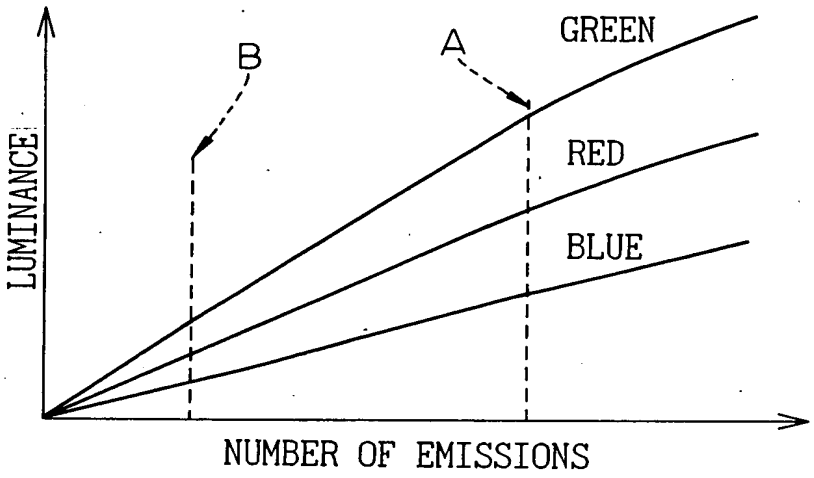

Fig.5B

(PRIOR ART)

UNIT EMISSION LUMINANCE CHARACTERISTICS DUE TO DECREASE OF ENERGY CONVERSION EFFICIENCY

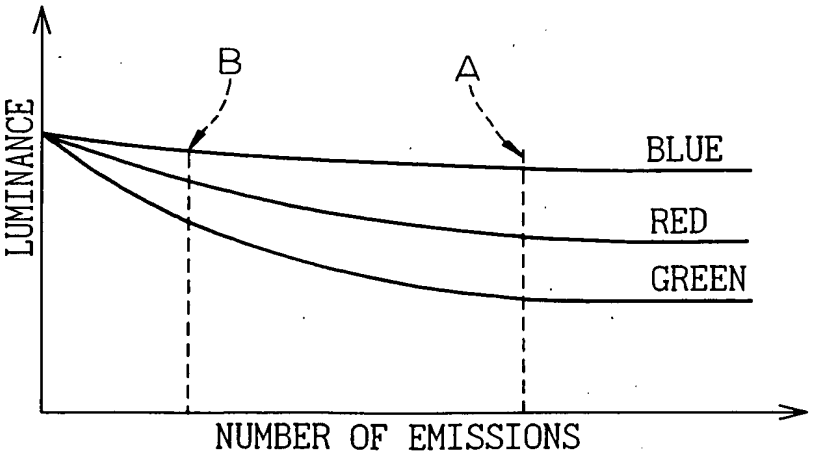

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Fig.6

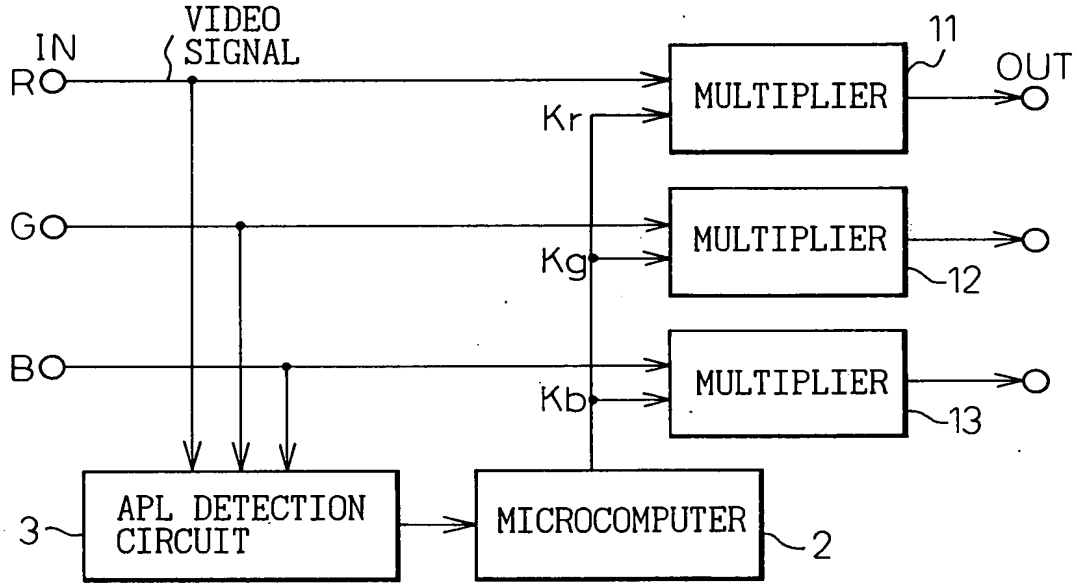

Fig.7

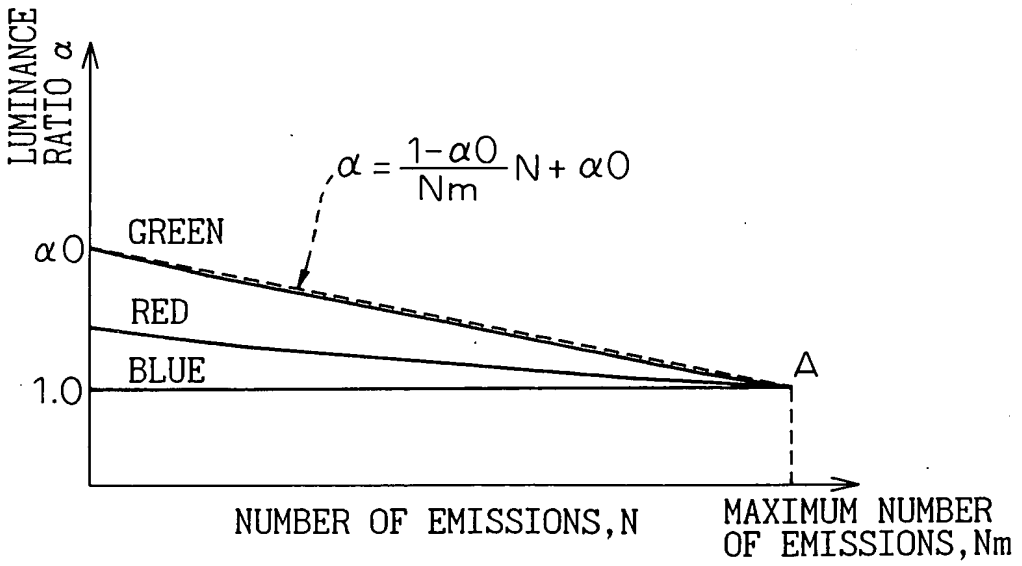

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Fig.8

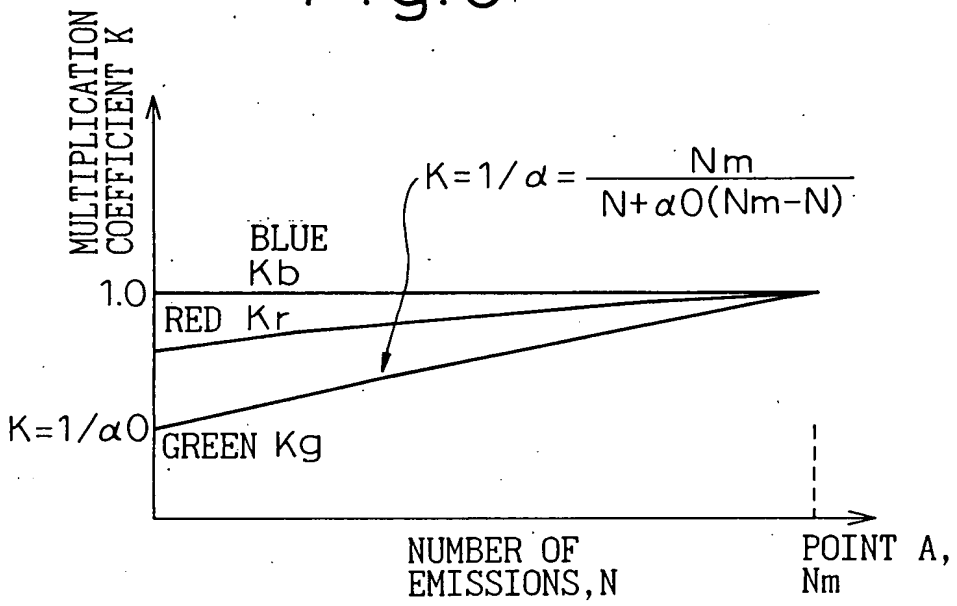

Fig.9

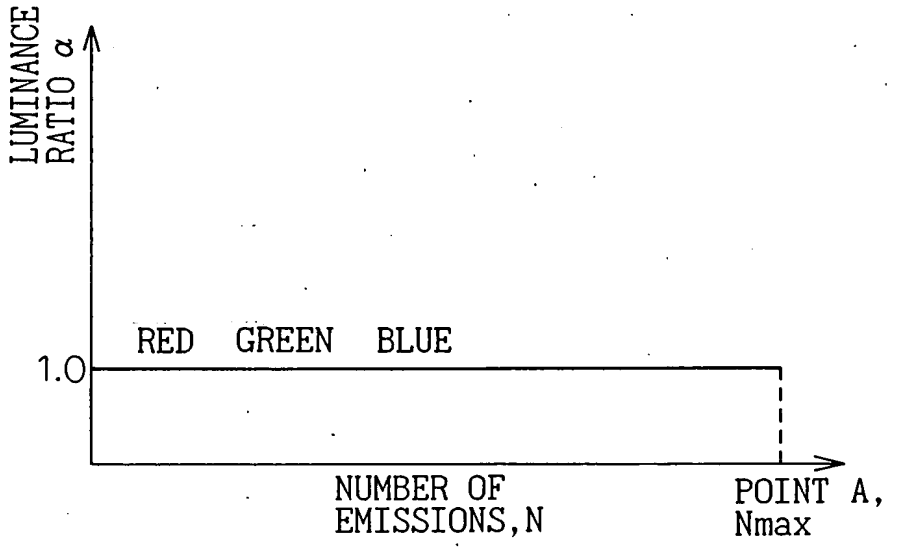

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Fig.10

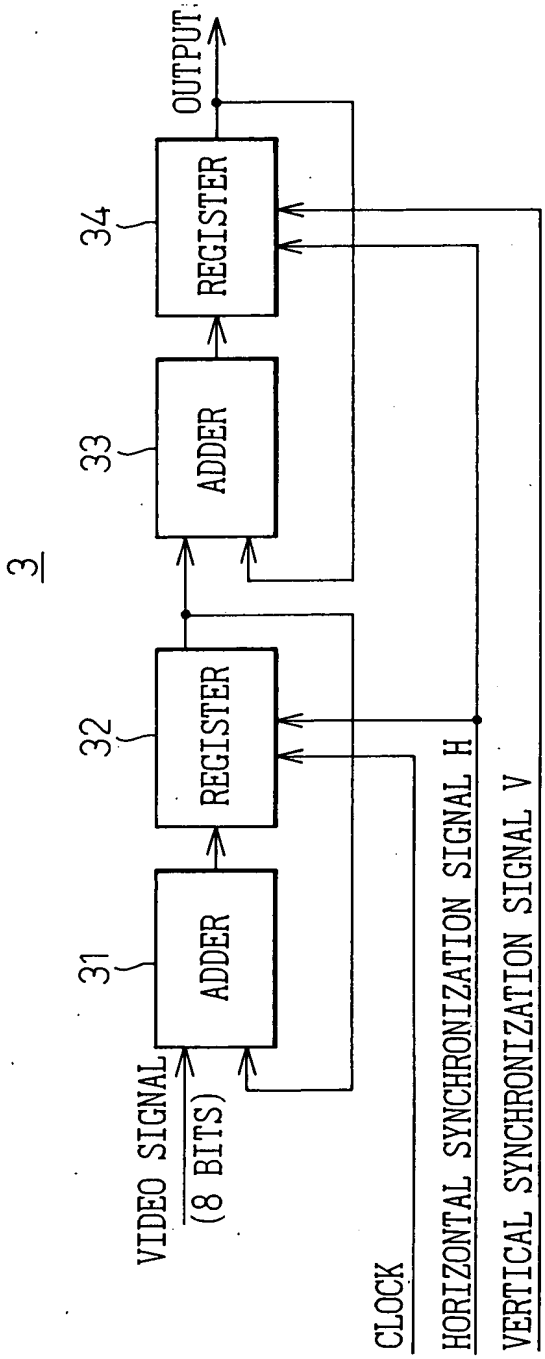
3
31
ADDER
32
REGISTER
33
ADDER
34
REGISTER
OUTPUT
VIDEO SIGNAL
(8 BITS)
CLOCK
HORIZONTAL SYNCHRONIZATION SIGNAL H
VERTICAL SYNCHRONIZATION SIGNAL V

Fig.11

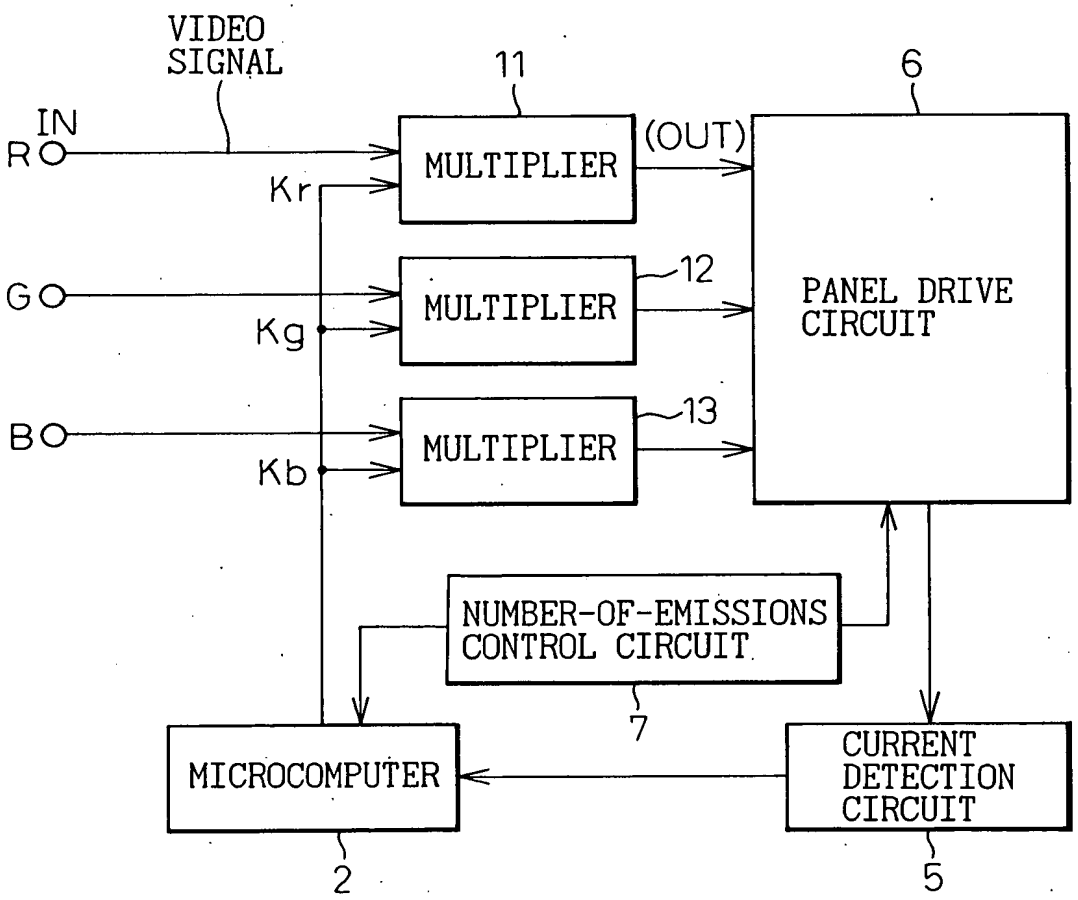

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Fig.12

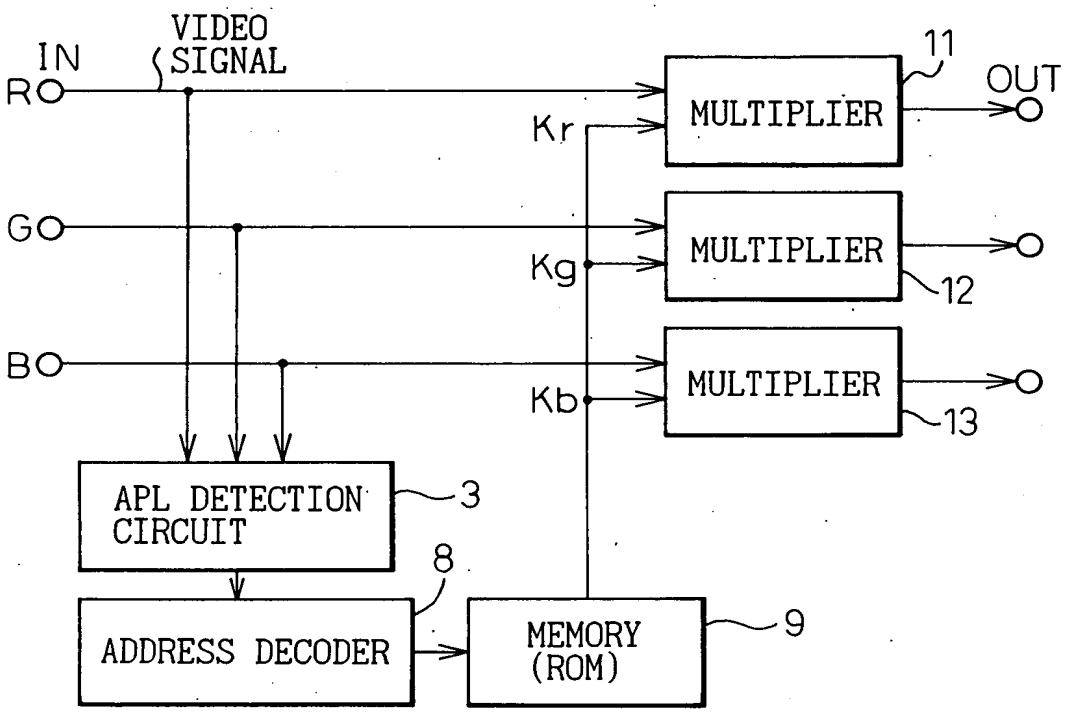

Fig.13

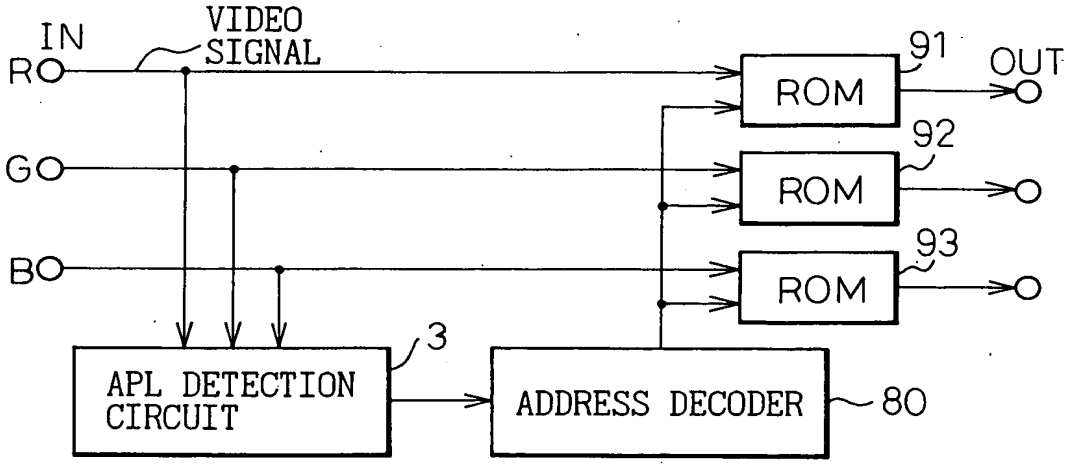

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Fig.14

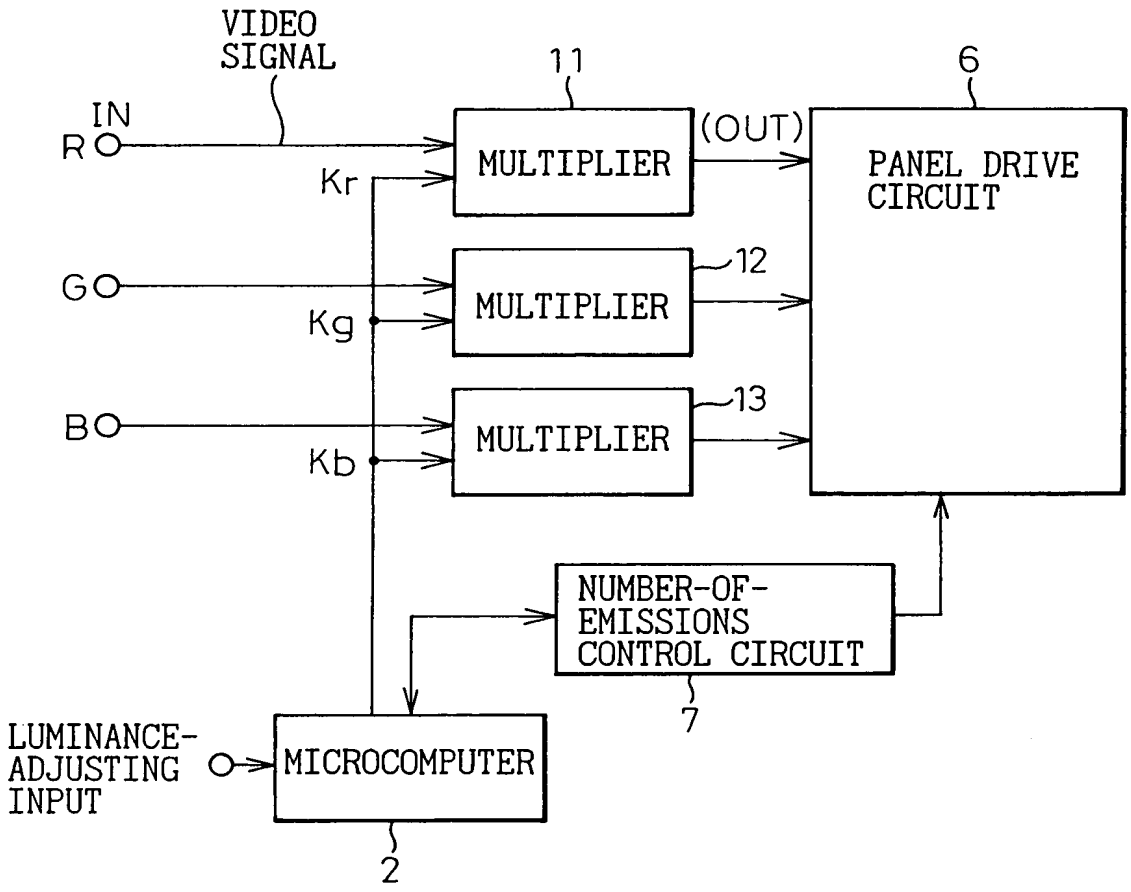

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Fig.15

GRAY LEVEL SMALL → LARGE

NUMBER OF EMISSIONS SMALL ↓ LARGE

GRAY LEVEL		A	B	C	D	E	F
NUMBER OF EMISSIONS (NUMBER OF TIMES)	P1	Fa	Fb	Fc	Fd	Fe	Ff
	P2	2×Fa	2×Fb	2×Fc	2×Fd	2×Fe	2×Ff
	P3	3×Fa	3×Fb	3×Fc	3×Fd	3×Fe	3×Ff
	P4	4×Fa	4×Fb	4×Fc	4×Fd	4×Fe	4×Ff
	P5	5×Fa	5×Fb	5×Fc	5×Fd	5×Fe	5×Ff
	⋮	⋮	⋮	⋮	⋮	⋮	⋮
	⋮	⋮	⋮	⋮	⋮	⋮	⋮

Fig.16

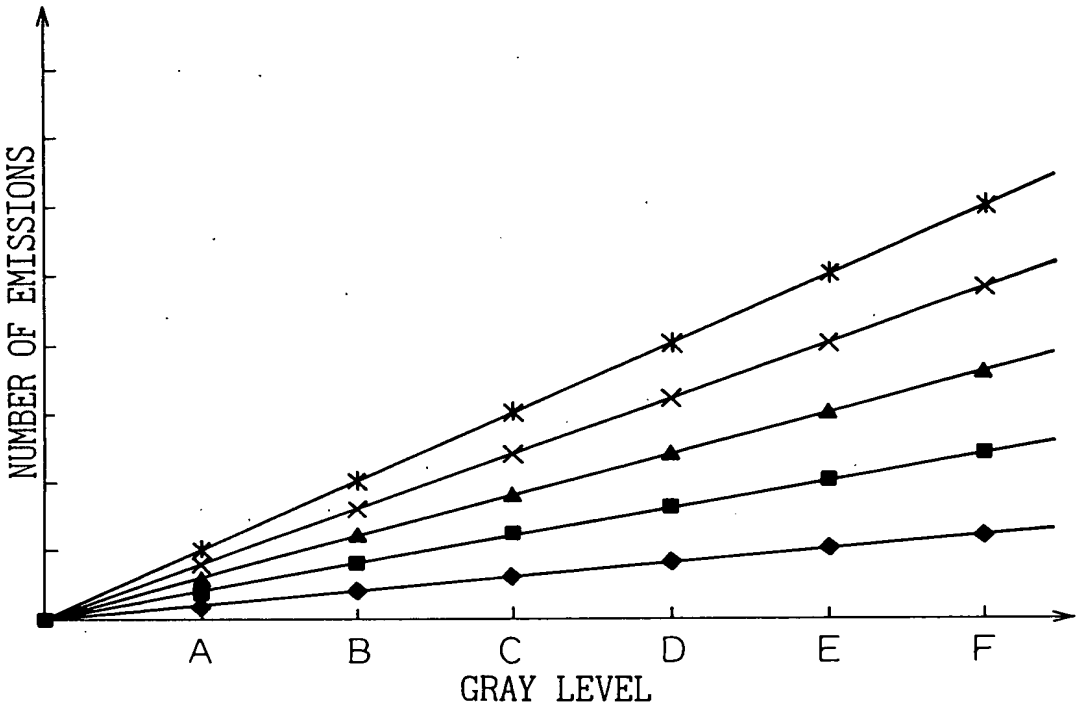

Fig.17

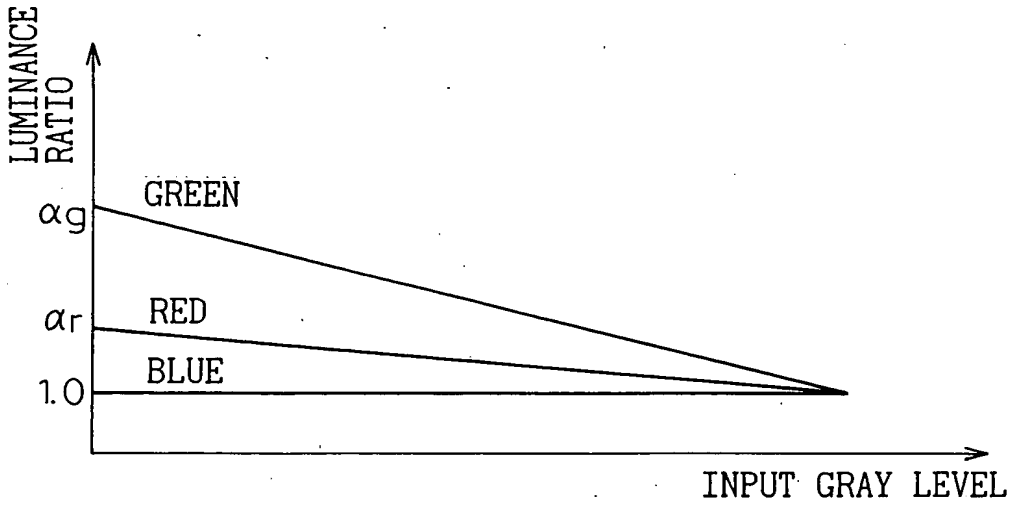

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Fig.18

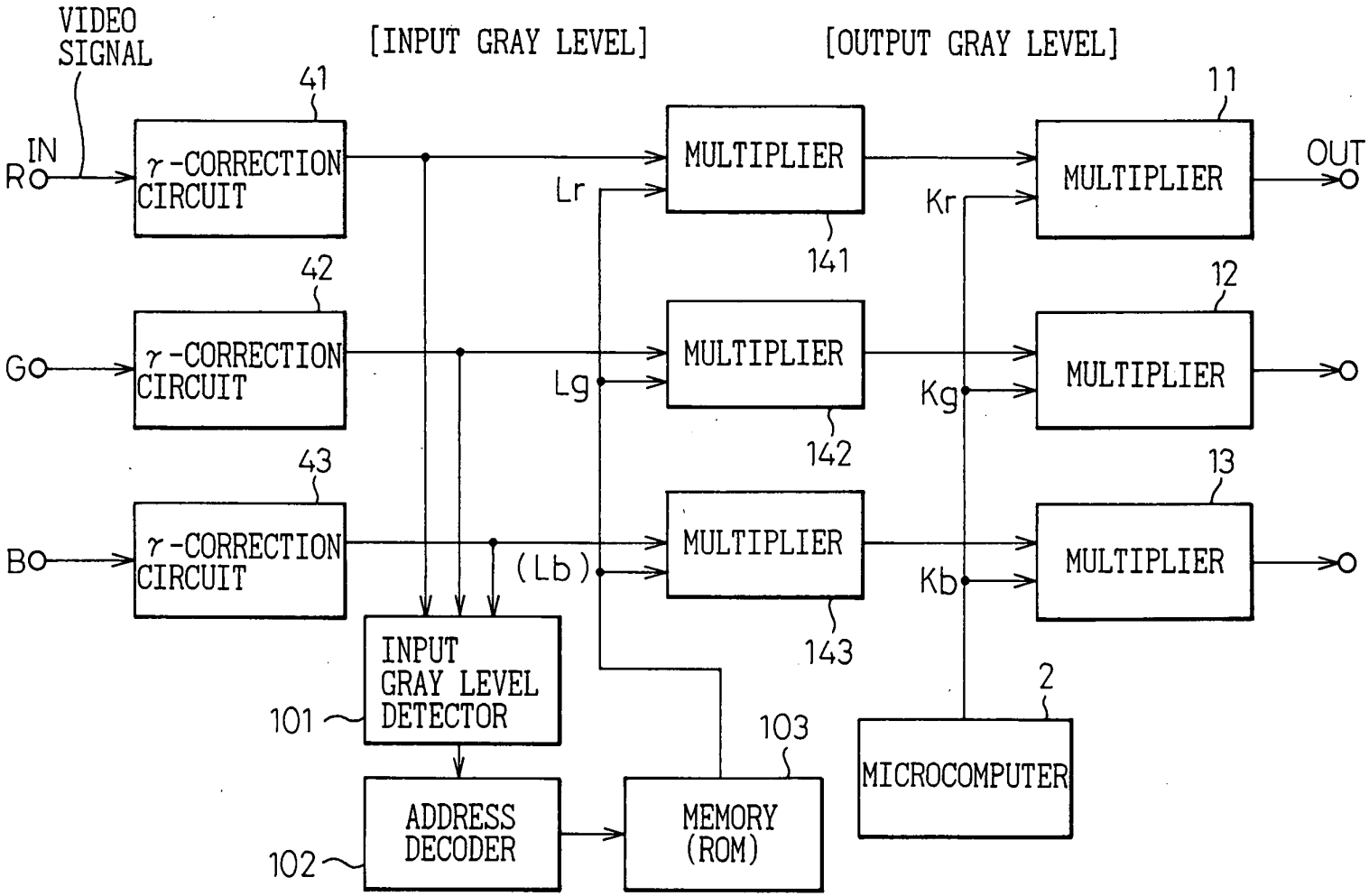

VIDEO SIGNAL
[INPUT GRAY LEVEL]
[OUTPUT GRAY LEVEL]
IN
R
G
B
γ-CORRECTION CIRCUIT
γ-CORRECTION CIRCUIT
γ-CORRECTION CIRCUIT
41
42
43
MULTIPLIER
MULTIPLIER
MULTIPLIER
141
142
143
Lr
Lg
(Lb)
11
12
13
MULTIPLIER
MULTIPLIER
MULTIPLIER
OUT
Kr
Kg
Kb
INPUT GRAY LEVEL DETECTOR
101
ADDRESS DECODER
102
MEMORY (ROM)
103
MICROCOMPUTER
2

Fig.19

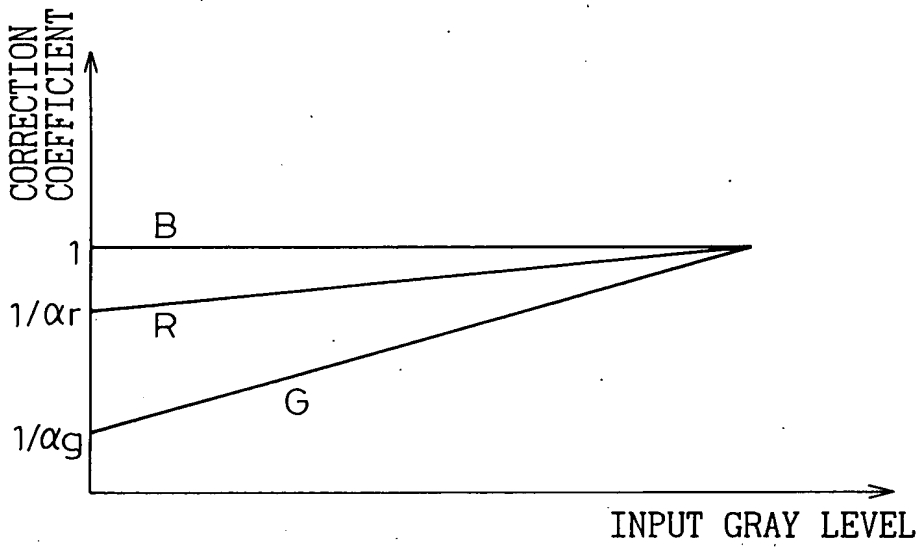
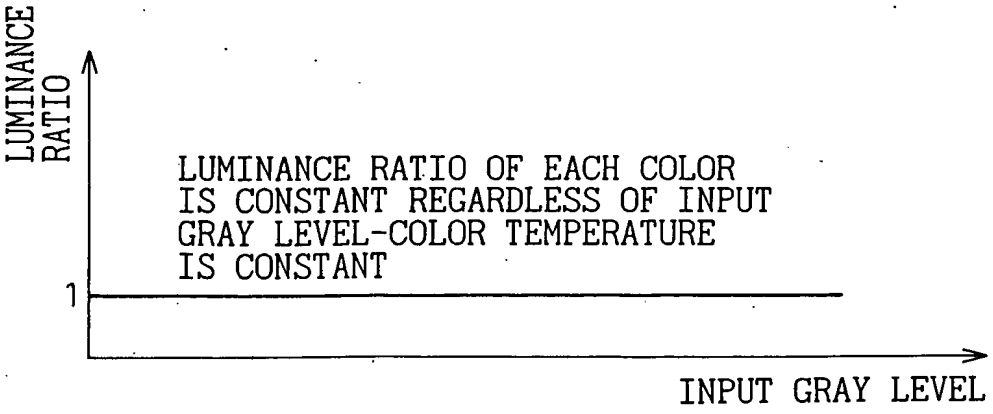


Fig.20



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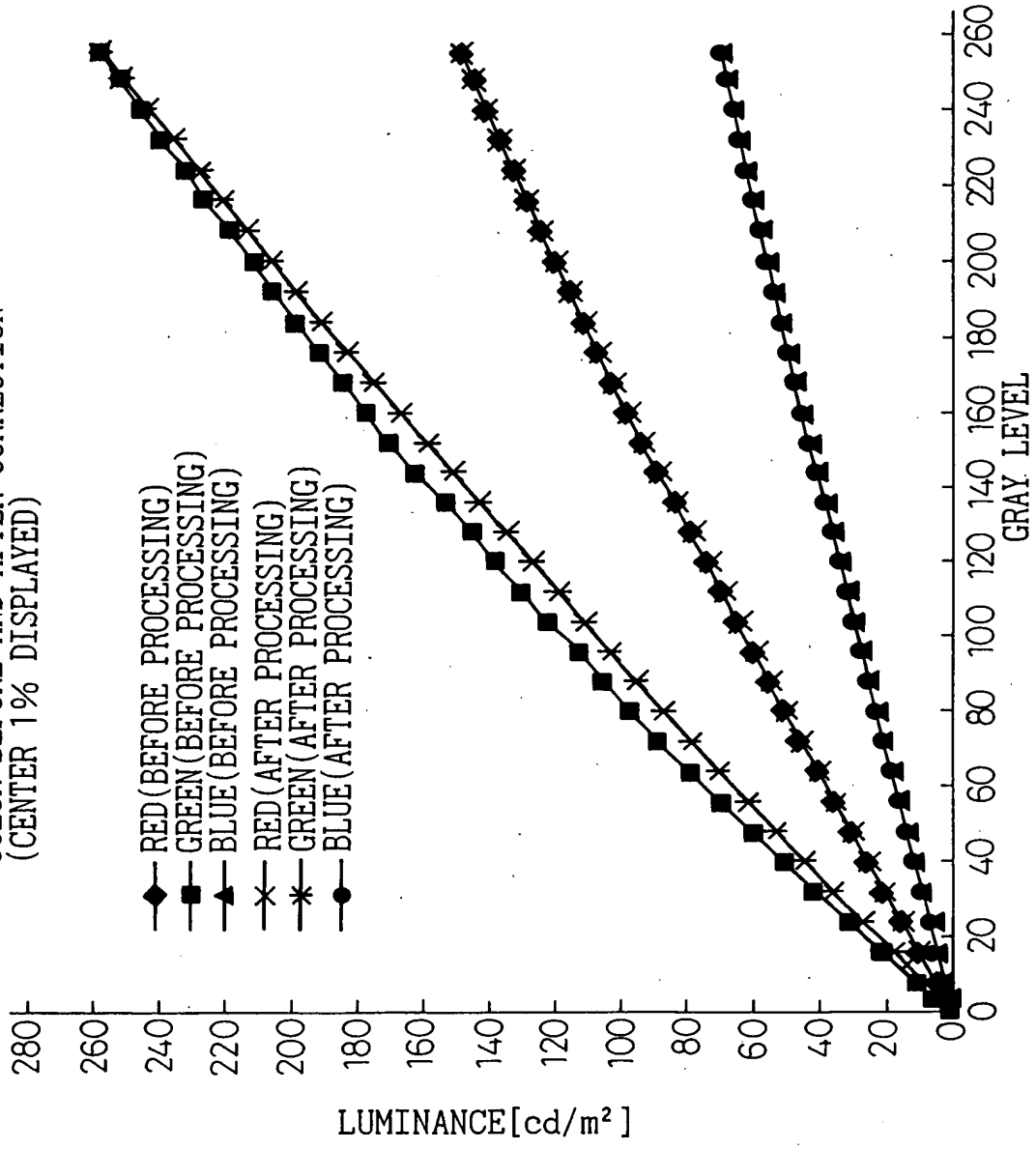
Fig.21